## **Listing of claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1-26. (Cancelled)
  - 27 (Cancelled)
  - 28 (Cancelled)
- 29 (Currently amended) <u>An isolated The</u> nucleic acid molecule of elaim 28, comprising a polynucleotide encoding amino acids 25 to 417 of SEQ ID NO:4.
- 30 (Previously presented) The nucleic acid molecule of claim 29, comprising nucleotides 73 to 1251 of SEQ ID NO:3.
  - 31 (Cancelled)
  - 32 (Cancelled)
- 33 (Currently amended) The nucleic acid molecule of claim <u>2932</u>, comprising a polynucleotide encoding amino acids 1 to 417 of SEQ ID NO:4.
- 34 (Previously presented) The nucleic acid molecule of claim 33, comprising nucleotides 1 to 1251 of SEQ ID NO:3.
- 35 (Currently amended) The nucleic acid molecule of claim <u>2927</u>, further comprising a heterologous polynucleotide.
- 36 (Previously presented) The nucleic acid molecule of claim 35, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 37 (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 2927 into a vector.
- 38 (Currently amended) A vector comprising the nucleic acid molecule of claim 2927.
- 39 (Previously presented) The vector of claim 38, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

- 40 (Currently amended) A host cell comprising the nucleic acid molecule of claim <u>2927</u>.
- 41 (Previously presented) The host cell of claim 40, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 42 (Previously presented) A method of producing a polypeptide which comprises culturing the host cell of claim 41 under conditions such that the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
  - 43 (Cancelled)
  - 44 (Cancelled)
- 45 (Currently amended) <u>An isolated The</u>-nucleic acid molecule—of elaim—44, comprising a polynucleotide encoding the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97757.
  - 46 (Cancelled)
  - 47 (Cancelled)
- 48 (Currently amended) The nucleic acid molecule of claim <u>45</u>47, comprising a polynucleotide encoding the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97757.
- 49 (Currently amended) The nucleic acid molecule of claim <u>45</u>43, further comprising a heterologous polynucleotide.
- 50 (Previously presented) The nucleic acid molecule of claim 49, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 51 (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim <u>4543</u> into a vector.
- 52 (Currently amended) A vector comprising the nucleic acid molecule of claim 4543.

- 53 (Previously presented) The vector of claim 52, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 54 (Currently amended) A host cell comprising the nucleic acid molecule of claim 4543.
- 55 (Previously presented) The host cell of claim 54, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 56 (Previously presented) A method of producing a polypeptide which comprises culturing the host cell of claim 55 under conditions such that the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

## 57-121. (Cancelled)

- 122. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 1 to 22 in SEQ ID NO:2.
- 123. (Previously presented) The nucleic acid molecule of claim 122, further comprising a heterologous polynucleotide.
- 124. (Previously presented) The nucleic acid molecule of claim 123, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 125. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 122 into a vector.
- 126. (Previously presented) A vector comprising the nucleic acid molecule of claim 122.
- 127. (Previously presented) The vector of claim 126, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 128. (Previously presented) A host cell comprising the nucleic acid molecule of claim 122.
- 129. (Previously presented) The host cell of claim 128, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

- 130. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 129 under conditions such that said—the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
- 131. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 33 to 56 in SEQ ID NO:2.
- 132. (Previously presented) The nucleic acid molecule of claim 131, further comprising a heterologous polynucleotide.
- 133. (Previously presented) The nucleic acid molecule of claim 132, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 134. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 131 into a vector.
- 135. (Previously presented) A vector comprising the nucleic acid molecule of claim 131.
- 136. (Previously presented) The vector of claim 135, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 137. (Previously presented) A host cell comprising the nucleic acid molecule of claim 131.
- 138. (Previously presented) The host cell of claim 137 wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 139. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 138 under conditions such that said—the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
- 140. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 59 to 82 in SEQ ID NO:2.
- 141. (Previously presented) The nucleic acid molecule of claim 140, further comprising a heterologous polynucleotide.

- 142. (Previously presented) The nucleic acid molecule of claim 141, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 143. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 140 into a vector.
- 144. (Previously presented) A vector comprising the nucleic acid molecule of claim 140.
- 145. (Previously presented) The vector of claim 144, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 146. (Previously presented) A host cell comprising the nucleic acid molecule of claim 140.
- 147. (Previously presented) The host cell of claim 146, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 148. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 147 under conditions such that said—the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
- 149. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 95 to 112 in SEQ ID NO:2.
- 150. (Previously presented) The nucleic acid molecule of claim 149, further comprising a heterologous polynucleotide.
- 151. (Previously presented) The nucleic acid molecule of claim 150, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 152. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 149 into a vector.
- 153. (Previously presented) A vector comprising the nucleic acid molecule of claim 149.
- 154. (Previously presented) The vector of claim 153, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

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- 155. (Previously presented) A host cell comprising the nucleic acid molecule of claim 149.
- 156. (Previously presented) The host cell of claim 155, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 157. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 156 under conditions such that said the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
- 158. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 179 to 190 in SEQ ID NO:2.
- 159. (Previously presented) The nucleic acid molecule of claim 158, further comprising a heterologous polynucleotide.
- 160. (Previously presented) The nucleic acid molecule of claim 159, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 161. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 158 into a vector.
- 162. (Previously presented) A vector comprising the nucleic acid molecule of claim 158.
- 163. (Previously presented) The vector of claim 162, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 164. (Previously presented) A host cell comprising the nucleic acid molecule of claim 158.
- 165. (Previously presented) The host cell of claim 164, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 166. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 165 under conditions such that said—the

polypeptide <u>encoded</u> by said <u>nucleic acid molecule</u> is expressed, and recovering said polypeptide.

- 167. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 196 to 205 in SEQ ID NO:2.
- 168. (Previously presented) The nucleic acid molecule of claim 167, further comprising a heterologous polynucleotide.
- 169. (Previously presented) The nucleic acid molecule of claim 168, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 170. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 167 into a vector.
- 171. (Previously presented) A vector comprising the nucleic acid molecule of claim 167.
- 172. (Previously presented) The vector of claim 171, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 173. (Previously presented) A host cell comprising the nucleic acid molecule of claim 167.
- 174. (Previously presented) The host cell of claim 173, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 175. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 174 under conditions such that said the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
  - 176. (Cancelled)
- 177. (Currently amended) <u>An isolated The</u>-nucleic acid molecule of elaim-176 comprising a polynucleotide encoding amino acids 25 to 201 of SEQ ID NO:4.
- 178. (Previously presented) The nucleic acid molecule of claim 177 comprising nucleotides 73 to 603 of SEQ ID NO:3.

- 179. (Currently amended) The nucleic acid molecule of claim <u>177476</u>, further comprising a heterologous polynucleotide.
- 180. (Previously presented) The nucleic acid molecule of claim 179, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 181. (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim <u>177</u><del>176</del> into a vector.
- 182. (Currently amended) A vector comprising the nucleic acid molecule of claim 177<del>176</del>.
- 183. (Previously presented) The vector of claim 182, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 184. (Currently amended) A host cell comprising the nucleic acid molecule of claim <u>177</u><del>176</del>.
- 185. (Previously presented) The host cell of claim 184, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 186. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 185 under conditions such that said—the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
  - 187. (Cancelled)
- 188. (Currently amended) An isolated The—nucleic acid molecule comprising a polynucleotide of claim 187 encoding amino acids 202 to 224 of SEQ ID NO:4.
- 189. (Previously presented) The nucleic acid molecule of claim 188 comprising nucleotides 604 to 672 of SEQ ID NO:3.
- 190. (Currently amended) The nucleic acid molecule of claim <u>188</u>187, further comprising a heterologous polynucleotide.
- 191. (Previously presented) The nucleic acid molecule of claim 190, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

- 192. (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim <u>188187</u> into a vector.
- 193. (Currently amended) A vector comprising the nucleic acid molecule of claim 188187.
- 194. (Previously presented) The vector of claim 193, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 195. (Currently amended) A host cell comprising the nucleic acid molecule of claim 188187.
- 196. (Previously presented) The host cell of claim 195, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 197. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 196 under conditions such that said—the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
  - 198. (Cancelled)
- 199. (Currently amended) <u>An isolated The</u> nucleic acid molecule comprising a polynucleotide of claim 198 encoding amino acids 225 to 417 of SEQ ID NO:4.
- 200. (Previously presented) The nucleic acid molecule of claim 199 comprising nucleotides 673 to 1251 of SEQ ID NO:3.
- 201. (Currently amended) The nucleic acid molecule of claim <u>199198</u>, further comprising a heterologous polynucleotide.
- 202. (Previously presented) The nucleic acid molecule of claim 201, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 203. (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 199<del>198</del> into a vector.
- 204. (Currently amended) A vector comprising the nucleic acid molecule of claim 199198.

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- 205. (Previously presented) The vector of claim 204, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 206. (Currently amended) A host cell comprising the nucleic acid molecule of claim 199198.
- 207. (Previously presented) The host cell of claim 206, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 208. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 207 under conditions such that said—the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.
  - 209. (Cancelled)
- 210. (Currently amended) An isolated The—nucleic acid molecule comprising a polynucleotide of claim 209 encoding amino acids 342 to 408 of SEQ ID NO:4.
- 211. (Previously presented) The nucleic acid molecule of claim 210 comprising nucleotides 1024 to 1224 of SEQ ID NO:3.
- 212. (Currently amended) The nucleic acid molecule of claim <u>210209</u>, further comprising a heterologous polynucleotide.
- 213. (Previously presented) The nucleic acid molecule of claim 212, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 214. (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 210<del>209</del> into a vector.
- 215. (Currently amended) A vector comprising the nucleic acid molecule of claim 210209.
- 216. (Previously presented) The vector of claim 215, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 217. (Currently amended) A host cell comprising the nucleic acid molecule of claim 210209.

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- 218. (Previously presented) The host cell of claim 217, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
- 219. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 218 under conditions such that said-the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.